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The present invention relates to a system and method for annotating, with text,

voice messages that are received within a unified communications service (UCS).

**BACKGROUND OF THE INVENTION** 

UCS systems are known. Typically, such systems provide subscribers the ability

to access multiple message formats at a single interface. For example, a subscriber may

access electronic mail (email), facsimile messages, and telephonic messages (voice

messages) at the subscriber's desktop computer or other similar device.

Typically, access to the messages is via the subscriber's communications

For example, the subscriber may access messages using Lotus Notes, platform.

Microsoft Outlook or other suitable messaging platform.

15 One drawback of some existing systems is that voice messages are often provided

as an attached audible file to an email message. To access the attached audible file, the

subscriber must open a separate, additional application that provides an audible file

player. For example, a subscriber that receives a voice message in Microsoft Outlook

must open Windows Media Player to access the attached audible file. Among other

things, this may be inefficient and time consuming.

Another drawback of some existing systems is that they do not provide for

simultaneous annotation of the voice message. In other words, most communications

platforms do not provide a field in which a subscriber may input text while the audible

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particular message can be time consuming and tedious.

Other drawback of existing systems also exist.

making retrieval of the both files more complicated.

**SUMMARY OF THE INVENTION** 

In order to overcome these and other drawbacks of existing systems there is

message and entering notes. A related drawback with these systems is that any notes that

are taken may be stored in a separate location or file from that of the voice message

text searching of the annotations associated with the voice messages. Thus, retrieval of a

Another drawback of some existing systems is that they do not provide for full

provided a system and method for enabling a subscriber to enter private notes regarding a

received voice message. The private notes may be entered simultaneously with playback

of the message and on the same message presentation form as the audible voice message

player. The private notes are available whenever the voice message is re-accessed by the

subscriber, and are retrievable via text search operations.

As mentioned above, the audible voice message player may comprise an integral

portion of the message presentation form. One advantage of the present invention is that

the audible voice message player remains accessible during entering of private notes, so

that the player can be paused, moved forward or back, or otherwise manipulated without

losing or interfering with the private notes entry area.

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Client Reference No.: LOT9-2001-0030-US1

The present invention will now be described in more detail with reference to

exemplary embodiments thereof as shown in the appended drawings. While the present

invention is described below with reference to preferred embodiments, it should be

understood that the present invention is not limited thereto. Those of ordinary skill in the

art having access to the teachings herein will recognize additional implementations,

modifications, and embodiments, as well as other fields of use, which are within the

scope of the present invention as disclosed and claimed herein, and with respect to which

the present invention could be of significant utility.

**BRIEF DESCRIPTION OF THE DRAWINGS** 

In order to facilitate a fuller understanding of the present invention, reference is

now made to the appended drawings. These drawings should not be construed as

limiting the present invention, but are intended to be exemplary only.

Figure 1 is message presentation form according to some embodiments of the

invention.

Figure 2 is a messaging interface according to some embodiments of the

invention.

Figure 3 is a voice message inbox folder according to some embodiments of the

invention.

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## DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENT(S)

As discussed herein, the present invention provides a system and method for annotating voice messages that are received by subscribers of a unified communications service (UCS). The UCS may comprise any suitable network of email, telephonic, facsimile, instant messaging, or other messaging services.

Preferably, the UCS contains an interface for presenting messages to subscribers. The interface may vary according to the hardware and software used to generate and access the messages. For example, processor-based hardware (e.g., personal computer, laptop, palm-top, etc.) may implement software based graphical user interfaces (GUIs), or the like, to present messages to subscribers.

The messaging interface may comprise a message presentation form that enables subscribers to access the messages. Figure 1 is an example of a message presentation form according to one embodiment of the invention. The representation in Figure 1 shows a message presentation form 100 as it appears in a Lotus Notes<sup>TM</sup> environment, however, the invention is not so limited. The message presentation form may comprise other features if represented in other environments (e.g., Microsoft Outlook<sup>TM</sup>, AOL<sup>TM</sup> mail, or the like).

As shown in Figure 1, message presentation form 100 may comprise a mechanism to enable subscribers to manipulate messages. For example, a tool bar 102, menu, or other mechanism may enable subscribers to create, forward, reply, delete, store, and otherwise manipulate messages. Other functions may also be provided in tool bar 102.

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Message presentation form 100 may also comprise a number of fields to enable

addressing and delivery of messages, and display of messages. For example, a From

field 104 may indicate the sender of the message, a To field 106 may indicate the

intended recipient of the message, a cc field 108 may indicate recipients to be copied on

the message (a bcc field (not shown) may also be included to indicate blind copy

recipients of the message). Other fields may also be included.

Addresses, aliases, or other identifiers may be entered in the above described

fields in order to enable routing and delivery of the messages in a known manner.

Message presentation form 100 may also comprise a subject field 110. Subject

field 110 may comprise a field that enables a subscriber to enter a descriptive heading for

the associated message. In some embodiments, text entered in subject field 110 may be

saved with the associated voice message.

In addition, text entered in subject field 110 may be forwarded with the message

presentation form when the message is forwarded (or replied to). In some embodiments,

the subscriber may indicate whether the text in subject field 110 gets forwarded with the

message or remains hidden to subsequent message receivers.

Message presentation form 100 may also comprise an audible message player

112. Audible message player 112 may comprise any suitable interface for play back of

audible message files (e.g., .wav files, mp3 files, .au files, .ram files, etc.).

One feature of message presentation form 100 is that audible message player 112

may be an integral part of the form. Such an arrangement enables subscribers to play

back an audible message without the need to open a separate audible file player.

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Audible message player 112 may comprise any suitable arrangement for play

back and recording of audile files. For example, audible message player 112 may

comprise play back and record function controls 114 to enable a subscriber to control the

play back and recording of audible message files. Function controls 114 may comprise

any suitable controls for controlling playback and recording of audible files. For

example, function controls 114 may comprise controls for playing, stopping, fast

forwarding, reversing, pausing, recording and other playback/record functions of audible

files.

Audible message player 112 may also include controls to select the hardware over

which an audible file is recorded or played back. For example, audible message player

112 may comprise selection tools 116 to enable to used to select whether playback or

recording is to be accomplished with a computer or with a telephone. Other selection

tools (e.g., buttons, pull-down menus, etc.) and other hardware choices may be provided

as well.

Audible message player 112 may also comprise an indicator 118 to indicate the

playback or record status of audible files. While Figure 1 shows a text indicator 118, any

suitable indicator 118 may be used (e.g., graphical, numerical, etc.).

Audible message player 112 may also comprise a telephone extension input field

120. Telephone extension input field 120 may enable a subscriber to select a telephone

extension to which delivery of an audible message is desired.

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Audible message player 112 may also comprise various sound quality controls.

For example, audible message player 112 may comprise volume control 122 or other

tone and sound quality controls (not shown).

Message presentation form 100 may also comprise a private notes field 124.

Private notes field 124 may comprise any suitable field for enabling subscriber input of

annotations during playback or recording of audible messages. For example, private

notes field 124 may comprise an area which, when selected via a mouse or other

selection mechanism, enables the subscriber to input or alter text annotations while

audible message player 112 is playing or recording an audible message.

In addition, annotations entered in private notes field 124 may be stored with the 10

associated audible message. In this manner, a subscriber may read the annotations

associated with the audible message without having to access a separate application.

Likewise, the subscriber need not play back the audible message to get the desired

information as the annotations entered in private notes field 124 may be read without

playing the message. Other advantages also exist.

In some embodiments, annotations in the private notes field 124 may only be

forwarded to subsequent message recipients at the option of the sender. For example, a

sender may select an option to hide the annotations in private notes field 125 upon

forwarding or replying to the message.

In some embodiments, the default is that the annotation in private notes field 124

will not be viewable by subsequent recipients. Other embodiments do not allow any

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annotations in private notes field 124 to be viewable by subsequent recipients. Other

configurations are also possible.

Figure 2 is an example of a messaging interface 200 for a UCS according to some

embodiments of the invention. Again, the environment shown is Lotus Notes, TM but the

invention is not so limited. Any suitable environment may be used.

As shown in Figure 2, the messaging interface 200 may comprise a number of

storage locations (or folders) 202 that enable organization of messages. For example, an

inbox folder 204 may be used to display received messages as indicated generally at 206.

Messaging interface 200 may also provide for the display of various icons 208, 10

210 that indicate the type of message (e.g., voice message, email, facsimile, etc.). Other

information, such as sender, delivery date and time, message size, etc., may also be listed

in messaging interface 200 as is known.

Figure 3 is an example of a voice inbox storage folder 300 according to some

embodiments of the invention. Voice storage folder 300 may enable display of a

subscriber's received voice messages as indicated generally at 302. Other configurations

are possible.

The present invention is not to be limited in scope by the specific embodiments

described herein. Indeed, various modifications of the present invention, in addition to

those described herein, will be apparent to those of ordinary skill in the art from the

foregoing description and accompanying drawings. Thus, such modifications are

intended to fall within the scope of the following appended claims. Further, although the

present invention has been described herein in the context of a particular implementation

in a particular environment for a particular purpose, those of ordinary skill in the art will

recognize that its usefulness is not limited thereto and that the present invention can be

beneficially implemented in any number of environments for any number of purposes.

Accordingly, the claims set forth below should be construed in view of the full breath

and spirit of the present invention as disclosed herein.